



# भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित  
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इस भाग में निम्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।  
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

## भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
[Notifications and Notices issued by the Patent Office Relating to Patents and Designs]

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PATENTS AND DESIGNS  
Calcutta, the 7th November 1987

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1-317G1/87

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**APPLICATION FOR PATENTS FILED AT THE HEAD-OFFICE 234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20**

The dates shown in the crescent brackets are the dates claimed under Section 135, of the Patents Act, 1970.

The 25th September, 1987

- 763/Cal/87. Koyo Sangyo Co. Ltd. Preparation of laminated material.
- 764/Cal/87. Maverick Microsystems International, Inc. A hammer assembly for use in a check encoding apparatus. [Divisional date 12th November 1984].
- 765/Cal/87. Fabrique Nationale Herstal. Telescopic Grenade.
- 766/Cal/87. Voest-Alpine Aktiengesellschaft. Process for producing frogs of railway switches.

The 28th September, 1987

- 767/Cal/87. Lingaraj Patnaik. Wave-pump for use with fluid.
- 768/Cal/87. Combustion Engineering, Inc. Intelligent Chemistry management system.
- 769/Cal/87. Mobil Oil Corporation. An improved reactant phase separator and flow distributor apparatus. [Divisional date 12th October 1983].

The 29th September, 1987

- 770/Cal/87. Albert James Willmot. Applicator Capsule. (Convention dated 30th Sept. 1986) Australia.
- 771/Cal/87. Lamerie, N.V. Compositions for silver plating and polishing.
- 772/Cal/87. Warman International Limited. Impellers for centrifugal pumps. (Convention dated 7th October, 1987) Australia.

The 5th October, 1987

- 773/Cal/87. Neutralysis Industries Pty. Ltd. Treatment of waste and a rotary kiln therefor. (Convention dated 2nd October, 1986) Australia.
- 774/Cal/87. Vsesojuzny Nauchno-Issledovatelsky I Proektny Institut Aljuminievoi, Magnievoi I Elektrodoj Promyshlennosti. Process for preparing damp-proof course for hydraulic structures.
- 775/Cal/87. Siemens Aktiengesellschaft. Switch truck for an enclosed electrical switchgear panel.
- 776/Cal/87. Dunlop-CCT s.a. Vinyl chloride polymer products. (Convention date 8th October 1986) Great Britain.
- 777/Cal/87. Noel Carroll. Cyclone Separator. (Convention date 3rd October 1986) Australia.

**APPLICATION FOR THE PATENTS FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, 3RD FLOOR, KAROL BAGH, NEW DELHI-110005**

The 24th August, 1987

- 739/Del/87. Council of Scientific and Industrial Research. "A novel Multi set point digital comparator and status indicator".
- 740/Del/87. Sanden Corporation. "Compressor with rotation detecting device".
- 741/Del/87. Colgate Palmolive Company. "Enzymatic Hydrolysis of beef tallow".
- 742/Del/87. Honda Giken Kogyo Kabushiki Kaisha. "Seat-type motor vehicle with a container".
- 743/Del/87. Colgate-Palmolive Company. "Dentifrice sachet".

The 25th August, 1987

- 744/Del/87. Oil & Natural Gas Commission Institute of Drilling Technology. "A process for the preparation of novel cement slurry retarder".
- 745/Del/87. Shri Ram Institute for Industrial Research. "A process for the emulsion polymerization of vinyl halides".
- 746/Del/87. Shri Ram Institute for Industrial Research. "A process for the Micro-Suspension polymerization of vinyl halides".
- 747/Del/87. The B.F. Goodrich Company. Glass fiber reinforced vinyl chloride polymer products and process for their preparation".
- 748/Del/87. The B.F. Goodrich Company. "Colloidal stable vinyl halide polymerizations with inercaptan chain transfer agents".
- 749/Del/87. The B.F. Goodrich Company. "Process for making film grade PVC".
- 750/Del/87. Digital Equipment Corporation. "Outer lead tape automated bonding system".
- 751/Del/87. Colgate-Palmolive Company. "Toilet soap bars made from topped, distilled coco "fatty acid".
- 752/Del/87. The B.F. Goodrich Company. "Improved catalyst and process for the fluid-bed oxychlorination of ethylene to EDC".
- 753/Del/87. SAB Nife AB. "A device at a spring brake actuator."

The 26th August, 1987

- 754/Del/87. S.P. Agrawala and others. "Mechanised conical process vat".
- 755/Del/87. Dr. Virandra Singh. "An Improved lung exerciser with hydration attachment".
- 756/Del/87. USX Engineers and Consultants, Inc. "Tundish for mixing alloying elements with molten metal".
- 757/Del/87. Wilson Sporting Goods Co. "Tennis racket".
- 758/Del/87. International Paint Public Limited Company. "Coating composition production process". (Convention date 5th September, 1986) (U.K.).

The 27th August, 1987

- 759/Del/87. REM Chemicals, Inc. "Composition and method for metal surface". (Convention date 3rd February, 1987 (Canada)).

The 28th August, 1987

- 760/Del/87. Exxon Chemical Patents, Inc. "New supported polymerization catalyst".
- 761/Del/87. Gerhard Fischer. "Plate heat exchanger".

The 31st August, 1987

- 762/Del/87. Acumeter Laboratories Inc. "Method of and apparatus for maintaining uniform hot melt coatings on thermally sensitive webs by maintaining dimensional stability of silicone and rubber-like back-up rolls".
- 763/Del/87. Sultan Singh Jain. "A water wave generator cum engine".
- 764/Del/87. The M. W. Kellogg Company. "Process for separation of hydrocarbon gases".
- 765/Del/87. The M. W. Kellogg Company. "Process for separation of hydrocarbon gases".
- 766/Del/87. The M.W. Kellogg Company. "Process for separation of hydrocarbon mixtures".

767/Del/87. Standipack Private Limited, "A flexible package".

768/Del/87. Dewan Kraft Systems Pvt. Ltd., "A double belt filter for sludge dewatering".

769/Del/87. Splendour Presentations, "Stapplingless clip".

770/Del/87. Splendour Presentations, "Stapplingless paper clipper".

The 1st September, 1987

7711/Del/87. Hughes Aircraft Company, "Gun fire control system".

772/Del/87. Imperial Chemical Industries Plc., "Electrolytic cell and gasket". (Convention date 22nd September, 1986) (U.K.).

773/Del/87. Sahara India Commercial Ltd., "An arrangement for attaching, a lamp holder to a ceiling fan and a ceiling fan having said arrangement and lamp holder".

The 2nd September, 1987

774/Del/87. Thumswamy Joseph David, "Amunation charge-ignition gun".

775/Del/87. Kurt Goran Andersson, "Base bleed unit".

776/Del/87. Nauchno-Proizvodstvennoe Obiedinenie, "Med-instrument". Intrauterine contraceptive device".

777/Del/87. Nauchno-Proizvodstvennoe Obiedinenie, "Med-instrument". "Device for inserting contraceptives".

778/cl/87. Ciba-Geigy Ag., "Process for the preparation of N-Glycidyl compounds. [Divisional date 8th March, 1985].

The 3rd September, 1987

779/Del/87. Council of Scientific and Industrial Research, "Low moisture refractory composition containing 45-50% alumina useful for the preparation of refractory castables and a process for preparing refractory castables from the said composition and the refractory castables so prepared".

780/Del/87. Biec International Inc., "A flux". [Divisional date 1st January, 1985].

781/Del/87. The Lubrizol Corporation, "Oil-soluble metal salts of alkyl phosphoric acid esters and compositions containing said salts".

782/Del/87. Council of Scientific and Industrial Research, "An equipment for the production of channel black and a process for the production of channel black and a process for the production of channel black using the said equipment".

APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH AT TODI ESTATES,  
THIRD FLOOR, SUNMILL COMPOUND, LOWER PAREL (WEST) BOMBAY-13.

20-8-1987

264/BOM/87	Vinay Kumar Shridhar.	Screw thread limit template gauges.
265/BOM/87	Hoechst India Ltd.	Novel labdane derivatives.
266/BOM/87	Hoechst India Ltd.	Novel labdane derivatives.

24-8-87

267/BOM/87	Duraware Pvt. Ltd.	Improvements in/or relating to frying pan.
268/BOM/87	Sudhaben Chandrakantbhai Patel	A neck design of Blow moulded container to provide it a total leakproofness when used with conventional and or/plastic cap with inbuilt plug.
269/BOM/87	Satish Rajaram Gambhir	Improved work piece or job side Clamping Device convertible into top Clamping device.

26-8-87

270/BOM/87	Liladhar Sannabhadti	An improved electronic card.
271/BOM/87	Claudius Peters Aktiengesellschaft.	Equipment for emptying loose bulk material silos.
272/BOM/87	Claudius Peters Aktiengesellschaft.	Equipment for filling of dorsally located inlet ports of mobile storage receptacles.
273/BOM/87	Shlomo Pinto	A method and device for forming a fluid permeation control layer of the ground.

27-8-87

274/BOM/87	Hindustan Lever Ltd. 29th Aug 1986. Great Britain.	Cosmetic composition.
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2-9-87

275/BOM/87	Karsan Ramjibhai Dolaria	An electric device to get simple harmonic motion.
276/BOM/87	R.C. Shroff, C.G. Shroff, D.N. Shroff, K.D. Shroff, J.C. Shroff, K.G. Shroff, P.K. Shroff.	Agricultural drip irrigation system by pipeline and in particular to the drippers of such systems.
277/BOM/87	1. Amrik Singh. 2. Mukesh Kumar Jain.	An electricity Generator.

278/BOM/87	Rashtriya Chemicals and Fertilizers Ltd.	Urea Nitric Phosphate—a new fertilizer and a process for its manufacture.
7-9-1987		
279/BOM/1987	Manharlal Lavji Matalia.	Three dial combination number luggage lock—lever type & hook type for right hand & left hand use.
280/BOM/1987	Do.	Window latch.
281/BOM/1987	Do.	Three dial combination number shackle lock.
282/BOM/1987	Do.	Padlock.
283/BOM/1987	Do.	Drawer lock—with double stroke, pin tumblers.
284/BOM/1987	Do.	Mechanical door/window stopper and door chain.
285/BOM/1987	Do.	Rack bolt door/window stopper—concealed/morticed
286/BOM/1987	Do.	Concealed/mortice window stopper.
287/BOM/1987	Do.	Casement mechanical window/door stopper and door chain.
288/BOM/1987	Narendra Ramkrishna Paranjapo	Electronic clock cum callendar.
289/BOM/1987	Garware-Wall Ropes Limited.	A combination of natural fibre and synthetic fibre rope for use on capstain drums and winches.

## 8-9-1987

290/BOM/1987	Walchandnagar Industries Limited.	Improvements in or relating to sugar cane mill.
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## 9-9-1987

291/BOM/1987	Muralidhar Narayan Desai.	Reactor for manufacture of Carbides of tungstan.
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APPLICATIONS FOR PATENTS FILED AT THE  
PATENT OFFICE BRANCH, 61, WALLAJAH ROAD,  
MADRAS-600 002

The 14th September, 1987

- 666/Mas/87. IDL Chemicals Limited. Expansive compound for rock breakage—process of manufacture and application.
- 667/Mas/87. M. S. Mohamed Rasheed. The new method of fastening of binders with the new clips.
- 668/Mas/87. Teralandur Srinivasan Sundaram. Bio Gas Plant.
- 669/Mas/87. Sigma Tau Industrie Farmaceutiche Riunite SpA. Process for the preparation of -N-[(Hypoxanthin-9-YL)-Pentyloxycarbonyl]-Arginine.

The 15th September, 1987

- 670/Mas/87. Merlin Gerin. Modular assembly multipole earth leakage circuit breaker.

The 16th September, 1987

- 671/Mas/87. Y. M. Vatsala. Microbial process for photo-hydrogen production from cellulose in high saline water medium.
- 672/Mas/87. R. Ramachandrappa. Iron bullock cart.

The 17th September, 1987

- 673/Mas/87. Lucas Industries Public Limited Company. Improvements relating to disc brakes. (September 19, 1986; United Kingdom).

- 674/Mas/87. Girivas Viswanath Shet. Anti mosquito mat drops.

- 675/Mas/87. Rank Taylor Hobson Limited. Apparatus for indicating the value of a variable. (October 3, 1986; United Kingdom).

The 18th September, 1987

- 676/Mas/87. Man Gutehoffnungshutte GMBH. A reactor for gasifying a carbon-containing fuel. (September 10, 1987; Canada).

- 677/Mas/87. Emhart Industries, Inc. A forehearth for the conveyance of molten glass. (Divisional to Patent Application No. 916/Mas/84).

COMPLETE SPECIFICATION ACCEPTED

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CLASS : 32 E

161271

Int. Cl. : c08.f.3/64.

# A PROCESS FOR THE PREPARATION OF RIGID POLYVINYLCHLORIDE AND POLYACRYLATES ALLOYS.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH RAJ MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

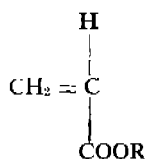
Inventor : KRISHNA KUMAR SHARMA, MADUMITA SAROOP & MAHESH KUMAR BAHL.

Application for Patent No. 63/Del/1984 filed on 21st January, 84.

Complete specification left on 16th April, 1985.  
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 11 Claims

A process for the preparation of rigid polyvinyl chloride and polyacrylate alloys comprises polymerizing methyl methacrylate with alkyl acrylates having the formula :



where R is ethyl, propyl, butyl, isobutyl and 2-ethyl hexyl radicals, in the presence of a polyacrylamide suspending agent, alongwith sodium metal phosphate salt as buffers to form polyacrylates and alloying the polyacrylates obtained with polyvinyl chloride by methods such as herein described.

Compl. specn. 10 pages.

CLASS : 50D

161272

Int. Class : F 25 j—1/00.

# IMPROVEMENTS IN OR RELATING TO METHOD AND APPARATUS FOR COOLING AND LIQUEFYING GAS HAVING A LOW BOILING POINT.

Applicant : COMPAGNIE FRANCAISE D'ETUDES ET DE CONSTRUCTION "TECHNIP", A FRENCH BODY CORPORATE, OF 170, PLACE HENRI REGNAULT, 92090 PARIS LA DEFENCE, FRANCE.

Inventors : HENRI PARADOWSKI AND DIDIER LEROUX.

Application for Patent No. 347/Del/84 filed on 24th April, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 11 Claims

A method of cooling and liquefying a gas having a low boiling point through heat exchange with at least one part of a main refrigerating fluid precooled until its at least partial liquefaction through heat exchange with an auxiliary refrigerating fluid, said refrigerating fluids being part of an incorporated cold-generating cascade of these two refrigerating circuits, each refrigerating fluid consisting cascade of these two refrigerating circuits, each refrigerating fluid consisting of a mixture of several component substances, closed-loop main refrigerating fluid evolving according to a closed-loop cooling cycle while successively undergoing therein :

at least one compression in the gaseous state;

at least one preliminary cooling with at least partial condensation;  
through heat exchange with said auxiliary refrigerating fluid;

at least one separation of the liquid and vapor phases thus obtained;

at least one refrigeration with total liquefaction and then sub-cooling and thereafter expansion through subsequent heat exchange and resulting attendant vaporization in counter-current relationship with itself and with the said gas for liquefying the latter at least partially;

its vapor thus reheated being finally recycled and re-compressed, characterized in that, after said separation, the vapor phase of the main refrigerating fluid, which is liquefied and sub-cooled in an exchanger, is divided at the outlet of this exchanger into at least a first portion which is expanded at a first pressure and at least a second portion which is expanded at a second pressure different from the first pressure;

whereas the liquid phase of the main refrigerating fluid, after sub-cooling in said exchanger, is divided into at least a first portion, which is expanded at a pressure equal to said first pressure; and

at least a second portion which is expanded at a pressure equal to said first pressure; and

at least a second portion which is expanded at a pressure equal to said second pressure.

Compl. specn. 28 pages.

Drg. 4 sheets

CLASS : 24 D<sub>4</sub>

161273

Int. Cl. : F 16 d 67/06.

# DEVICE FOR REGULATING THE OUTPUT PNEUMATIC BRAKING PRESSURE IN A PNEUMATIC BRAKING SYSTEM.

Applicant : WESTINGHOUSE BRAKE AND SIGNAL COMPANY LIMITED A BRITISH COMPANY OF PEW HILL, CHIPPENHAM, WILTSHIRE, UNITED KINGDOM.

Inventor : JACK WASHBOURN.

Application for Patent No. 360/Del/1984 filed on 27th April, 1984.

Convention date May 3, 1983/8312025/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 8 Claims

A device for regulating the output pneumatic braking pressure in a pneumatic braking system which comprises :

a pneumatic valve connected to a source of pneumatic pressure and being capable of opening in response to an electrical signal;

a pair of relatively movable members the first of said members being connected to said pneumatic valve and the second of said members being connected to the first member whereby said first member is

movable relative to the second in an axial direction upon rotation of said second member;

a stepping motor having its output shaft connected to said second movable member;

said stepping motor being connected to means for generating said electric signal representative of the desired degree of pneumatic braking;

the output shaft of said stepping motor being caused to rotate in a step-wise manner in response to said electrical signal;

the rotation of said shaft thereby controlling the opening of said pneumatic valve in a series of digital steps so as to provide, downstream of said pneumatic valve, control of said output braking pressure in a proportionate series of digital steps.

Compl. specn. 9 pages.

Drgs. 2 sheets.

CLASS : 149 B, D

161274

Int. Cl. : E 02 d—7/00.

#### TURNING MECHANISM OPERATING ALTERNATELY IN OPPOSITE DIRECTIONS TO FACILITATE THE DRIVING IN OR EXTRACTING OF PILES.

Applicant : ELISABETH HOCHSTRASSER, A GERMAN CITIZEN, OF BISMARCKSTRASSE 57, D-6600 SAARBRUCKEN, WEST GERMANY AND JURGEN HOCHSTRASSER, A GERMAN CITIZEN, OF KOBENHUTTENWEG 20, D-6600 SAARBRUCKEN, WEST GERMANY.

Inventor : HANS MATHIEU & JURGEN HOCHSTRASSER.

Application for Patent No. 381/Del/84 filed on 2nd May, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 10 Claims

Turning mechanism operating alternately in opposite directions to facilitate the driving in or extraction of piles with a bearing rim fixed to the pile and a rocker arm thereon to rotate about the pile and having two arms arranged symmetrically to the pile axis and carrying at each of their ends a balance weight, and with a plurality of stop pairs provided with stop members for transferring the impact energy and arranged on the bearing rim or on an inner flange of the rocker arm, as well as with drive cylinders, whose casing and piston rods are articulated to the bearing rim and/or the rocker arm, characterized in that said stop members (18, 18', 18'') are made from an incompressible, elastic material such as herein described received in recesses (20, 40) in at least one stop of the stop pairs (15, 16; 15', 16') said recesses forming with said members, circumferential clearances which permit a deformation within the elastic limit of member (18, 18', 18''), particularly at right angles to the impact direction and prevent direct contact between the stop pairs (15, 16; 15', 16'), said drive cylinders being pneumatically operable drive cylinders (11, 11) connected to said stop members, the compressed air passing out of said cylinders being removed by means of sound-damping chambers (34, 36), forming parts of rocker arm (2).

Compl. specn. 19 pages.

Drg. 3 sheets

CLASS : 147 E, G & L

161275

Int. Cl. : A63f 9/00 & H04n 3/00.

#### SYSTEM FOR CREATING A SEQUENTIAL PLAYBACK IN RESPONSE TO CHOICE INFORMATION.

Applicant : DAVID MICHAEL GESHWIND, A U.S. CITIZEN, OF 184—14 MIDLAND PARKWAY, JAMAICA, NEW YORK 11432, U.S.A.

Inventor : DAVID MICHEL GESHWIND.

Application for Patent No. 390/Del/84 filed on 8th May, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 3 Claims

A system for creating a sequential playback in response to choice information comprising :

- (a) control information generation means having an output of control data generated in response to choice information;
- (b) sequence selection means having an input connected to the output of said control information generation means for generating sequence selection data in response to said control data;
- (c) a medium for storing a plurality of information signals, upon which is stored a first grouping comprising a first portion of a first signal and a first portion of at least one additional signal followed by a second grouping comprising a second portion of said first signal and at least one other portion of one of said signals followed by at least one additional grouping, each additional grouping comprising portions of at least two of said signals comprising said plurality, each of said portions further comprising a plurality of subportions whereby any of said signal subportions comprising any particular grouping is selected, read and played back and whereby said selection is changeable at the end of any subportions such that the chosen subportion to the chosen signal and the next chosen subportion of the next chosen signal is played back without perceivable interruption;
- (d) reading means controlled by said sequence selection means to read selected subportions of any of said plurality of information signals and to jump from one subportion stored on said medium to another in response to selection data; and
- (e) playback means connected to the output of said reading means to sequentially playback subportions of different signals as selected by said sequence selection means and read by said reading means, such that playback is without perceivable interruption.

Compl. specn. 27 pages.

Drg. 7 sheets

CLASS : 71F

161276

Int. Cl. : E21b 43/00.

#### DEVICE FOR CONNECTING AN INPUT OF A COLLECTING HEAD TO AN OUTPUT OF AN UNDERSEA WELL HEAD.

Applicant : SOCIETE NATIONALE ELF AQUITAINE (PRODUCTION) A FRENCH COMPANY OF TOUR AQUITAINE, 92080 PARIS LA DEFENCE, FRANCE.

Inventors : YVON CASTEL & MICHEL IATO.

Application for Patent No. 469/Del/84 filed on 8th June, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 5 Claims

A device for connecting an input of a collecting head to an output of an undersea wellhead, comprising :

- a distribution block and handling mandrel on said collecting head and a movable connector having an axis common to that of a connection module connected to the distribution block on the collecting head by means of a looped duct;

said looped duct providing a flexible coupling for guiding the movable connector towards a receptacle connector having an axis common to the axis of said wellhead output, the duct consisting of two horizontal loops surrounding the distribution block at different levels;

said horizontal loops being connected by a rectilinear vertical portion of said duct;

said movable connector being engaged by a fork integral with a lever hinged by means of a first swivel joint for allowing lateral deflecting and rotary movements of said fork;

said lever connected by a second swivel joint to one end of hydraulic cylinder, other end of said hydraulic cylinder resting on said module being also hinged by means of a third swivel joint so as to allow height adjustment of said fork;

said movable connector having at its periphery radial guide rollers for cooperation with inclined input ramps defining a throat therebetween in said receptacle connector;

said radial guide rollers being grouped in pairs of superimposed upper and lower rollers;

said lower rollers having a diameter less than that of said upper rollers;

said input ramps being spaced apart by a width greater than that of a throat of said ramps, whereby when said upper rollers bear on at least two opposite said input ramps, said upper rollers are aligned in a vertical plane with the lower rollers; and

when said fork is lowered a pair of said lower rollers are engaged at bottom of said ramps and the axes of the movable connector and of the receptacle connector coincide.

Compl. specn. 13 pages.

Drg. 4 sheets

CLASS : 48A.

161277

Int. Cl. : H01b 11/00 & 13/00.

AN OPTICAL FIBRE RIBBON STRUCTURE AND A METHOD OF MANUFACTURING THE SAME.

Applicant : BICC PUBLIC LIMITED COMPANY, A BRITISH COMPANY, OF 21, BLOOMSBURY STREET, LONDON WC1B, 3 QN, ENGLAND.

Inventor : JOHN EDWARD TAYLOR.

Application for Patent No. 478/Del/84 filed on 12th June, 1984.

Convention date 17th June, 1983/8316493/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 12 Claims

An optical fibre ribbon structure comprising :

a plurality of optical fibres and at least one flexible elongate reinforcing element of substantially resilient material lying side by side and embedded in an elongate body of plastics material;

the or each resilient reinforcing element and the optical fibre ribbon structure of which it forms a part being in an undulating form comprising a plurality of smoothly curved undulations whose axes of curvature lie parallel to one another and substantially normal to the longitudinal axis of the optical fibre ribbon structure and the structure being such that, when a tensile force is applied to the undulating ribbon structure the ribbon structure straightens in a lengthwise direction against the action of the undulating resilient reinforcing element or elements thereby reducing the tensile force applied to the

optical fibres and, when the tensile force is removed, the ribbon structure returns towards its original undulating form.

Compl. specn. 18 pages.

Drg. 3 sheets

CLASS : 55E<sub>a</sub>

161278

Int. Cl. : C07d 51/50.

A METHOD OF MAKING A LABELED NUCLEIC ACID PROBE.

Applicant : MOLECULAR DIAGNOSTICS, INC., OF 400 MORGAN LANE, WEST HAVEN, CONNECTICUT-06516, U.S.A., A COMPANY ORGANISED UNDER THE LAWS OF CONNECTICUT, U.S.A.

Inventors : NANIBHUSHAN DATTAGUPTA & DONALD MORRIS CROTHERS.

Application for Patent No. 484/Del/84 filed on 13th June, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 9 Claims

A method of making a labeled nucleic acid probe, such as herein described, which comprises containing :

(a) a nucleic acid component with;

(b) a nucleic acid binding component such as herein described which are allowed to react in order to form a complex; and

(c) said complex is subjected to photochemical irradiation to effect covalent reaction and wherein the nucleic acid binding component carries a label or the label is bound the nucleic acid binding component after the photochemical reaction.

Compl. specn. 23 pages.

Drg. 2 sheets

CLASS : 69I

161279

Int. Cl. : H01h 1/00.

IMPROVED ELECTRICAL ISOLATOR.

Applicant : BHARAT HEAVY ELECTRICALS LIMITED, CORPORATE RESEARCH & DEVELOPMENT OF 18-20 KASTURBA GANDHI MARG, NEW DELHI-110001, INDIA, AN INDIAN ORGANISATION.

Inventors : SHAILENDRA SHARMA & PUTHOM MADOM RAMA IYER KRISHNAMOORTHY.

Application for Patent No. 626/Del/84 filed on 6th August, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 6 Claims

An improved electrical isolator comprising conventional fixed and moving contacts either or both of said contacts having applied thereon a protective jelly base characterised in that the said jelly base comprises petroleum base grease or vaseline and fine powders of silver and bismuth metals.

Complete specification 6 pages.

CLASS : 69 O

161280

Int. Cl. : H01h 1/02.

IMPROVEMENTS IN OR RELATING TO ELECTRICAL ISOLATORS AND METHOD OF MAKING SAME.

Applicant : BHARAT HEAVY ELECTRICALS LIMITED, CORPORATE RESEARCH & DEVELOPMENT, 18-20 KASTURBA GANDHI MARG, NEW DELHI-110001, INDIA, AN INDIAN ORGANISATION.

Inventors : RAVINDRA HIRALAL AULUCK, SHALINDRA SHARMA & PUTHOM MADOM RAMA IYER KRISHNAMOORTHY.

Application for Patent No. 627/Del/84 filed on 6th August, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

7 Claims

Improved electrical isolators comprising fixed and moving electrical contacts made of copper having a protective coating or layer applied to one or both the contacts and adhered thereto characterised in that the said coating or layer comprises a silver copper alloy, a bismuth-copper alloy and a silver-bismuth alloy.

Complete specification 8 pages.

CLASS : 40-G & 97-A & F 161281

Int. Cl. : B 01 j 1/00; G 21 b 1/00;  
H 01 j 15/00.

A TRANSFERRED-ARC PLASMA REACTOR FOR CHEMICAL AND METALLURGICAL APPLICATIONS.

Applicant : HYDRO-QUEBEC, OF 75 WEST, DORCHESTER BOULEVARD, MONTREAL, QUEBEC, CANADA.

Inventors : 1. WILLIAM H. GAUVIN, 2. GEORGE R. KUBANEK.

Application No. 896/Cal/82 filed July 30, 1982.

Convention dated 30th July, 1981 (382889) Canada.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

A transferred-arc plasma reactor for chemical and metallurgical applications comprising :

a bottom portion defining a crucible for collecting molten material;

a sleeve mounted on the top of the crucible;

a cathode assembly including a cathode mounted on top of the sleeve and electrically insulated therefrom, an anode;

an inlet for introducing feed material conveyed by a carrier gas near the top of the sleeve so that the feed material is fed against the inner wall of the sleeve;

a plasma arc being formed between the cathode and the anode for radiating heating energy to melt said feed material forming a falling film of molten material which flows down along the inner wall of the sleeve and drops into the crucible underneath; and

exit ports in the bottom portion of the reactor for existing the plasma and carrier gases, characterized in that the anode is mounted in the crucible in contact with the molten material in the crucible and is electrically insulated from the sleeve so as to cause the plasma arc to pass through the molten material in the crucible.

Compl. specn. 31 pages.

Drg. 5 sheets

CLASS : 121. 168C

161282

Int. Class : C 09 k—1/06.

LIQUID CRYSTAL COMPOSITION.

Applicant : THE SECRETARY OF STATE FOR DEFENCE IN HER BRITANNIC MAJESTY'S GOVERNMENT OF THE UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND, A BRITISH CORPORATION SOLE OF WHITEHALL, LONDON SW1A 2HB, ENGLAND AND EMERCK PATENT GESELLSCHAFT MIT BESCHRANKTER HAFTUNG, A GERMAN JOINT STOCK COMPANY ORGANISED UNDER THE LAWS OF THE FEDERAL REPUBLIC OF GERMANY OF FRANKFURTER STRASSE 250, 6100 DAMSTADT, FEDERAL REPUBLIC OF GERMANY.

Inventors: BALKWILL PETER HUGH, BISHOP DAVID IAN, PEARSON ANDREW DAVID, SAGE IAN CHARLES, GRAY GEORGE WILLIAM, LACEY DAVID, JOHNSON KENNETH, & MCDONNELL DAMIEN GERARD.

Application for Patent No. 79/Del/84 filed on 28th January, 1984.

Convention date 24-10-83/8328370/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

A liquid crystal composition which comprises a mixture of strong positive dielectric anisotropy liquid crystal materials selected from the compounds of Formulae IIa to III where each R is independently n-alkyl, n-alkoxy and each Ra is independently n-alkyl and at least one compound of general Formula I shown in the accompanying drawings

wherein the radical in Formula I and represented by Formula V is either a radical of formulae VI or VII and R<sub>1</sub> is hydrogen or alkyl having from 1 to 12 carbon atoms, R<sub>2</sub> is selected from hydrogen, alkyl having from 1 to 12 carbon atoms, alkoxy having from 1 to 12 carbon atoms, radical of Formula VIII, a radical of Formula IX and a radical of Formula X wherein R<sub>3</sub> is hydrogen or alkyl having from 1 to 12 carbon atoms and wherein R<sub>4</sub> is hydrogen, alkyl having from 1 to 12 carbon atoms or alkoxy having from 1 to 12 carbon atoms, radical VI represents a cyclohexane ring, radical XIA represents a benzene ring, each of X, Y and Z independently represents hydrogen or fluorine in one or more of the lateral benzene ring positions, provided that at least one of X, Y and Z is present representing fluorine; and with the proviso that when radical V is same as radical VII, the total number of carbon atoms or carbon plus oxygen atoms in the two groups R<sub>1</sub> and R<sub>2</sub> is less than 10, said compound of Formula I constituting from 5 to 95% by weight of said composition.

Compl. specn. 59 pages.

Drg. 25 sheets

CLASS : 32E

161283

Int. Cl. : C08g 20/00.

PROCESS FOR THE PRODUCTION OF IMPROVED POLYAMIDES AND A REACTOR THEREFOR.

Applicant : KARL FISCHER INDUSTRIEANLAGEN GMBH. A GERMAN COMPANY, OF HOLZHAUSER STRASSE 159, D-1000 BERLIN 27, FEDERAL REPUBLIC OF GERMANY.

Inventors : GERKING LUDER & FANKE GUNTER.

Application for Patent No. 757/Del/84 filed on 26th September, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.



## 15 Claims

A process for the production of improved polyamides by the polymerisation of caprolactam and the subsequent treatment and de-monomerisation of the polyamide which comprises subjecting a mixture of at least caprolactam and water to polymerisation at a temperature of from 260°C to 290°C over a residence time of from 12 to 20 hours to produce a polyamide 6 melt having a viscosity at rel of from 1.9 to 2.2 and a monomer-oligomer residue of from 10% to 14%, feeding said melt to a post-polymerisation and de-monomerisation zone where it is subjected to a pressure of less than 15 torr, and a temperature in the range of 280°C conveying said melt horizontally through said zone over a residence time of from 1.5 to 4 hours with continuous agitation so as to expose continuously additional surfaces of said melt to the ambient atmosphere whereby the volatile monomer-oligomer is substantially evaporated to provide a final polyamide product having a viscosity at rel of from 2.5 to 4 and a monomer-oligomer residue of less than 1.7%.

Compl. specn. 20 pages.

CLASS : 139A

161284

Int. Cl. : C01b 31/07.

### PROCESS FOR THE MANUFACTURE OF CARBON FIBRES.

Applicant : ASHLAND OIL, INC., A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF KENTUCKY, UNITED STATES OF AMERICA, OF 1401 WINCHESTAR AVENUE, ASHLAND, KENTUCKY 41101, UNITED STATES OF AMERICA.

Inventors : WILLIAM RONALD SAWRAN, FRANK HOLLISTER TURRILL, NORMAN WHITLEY HALL & JOHN WILBUR NEWMAN.

Application for Patent No. 762/Del/84 filed on 29th September, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 8 Claims

A process for the manufacture of carbon fibers from a fiber precursor pitch which consists essentially of :

- converting in a manner such as herein described said fiber precursor pitch into fibers;
- stabilizing the fibers of step (a) by heating them in an atmosphere containing an oxidizing gas at a temperature close to, but at least 5°C below, the glass transition temperature of the fibers;
- transferring the stabilized fibers of step (b) into a zone substantially free of an oxidizing gas, and heating said fibers to a temperature of at least 1000°C for a period of time sufficient to increase the fixed carbon content of said fibers to at least 90 weight%; and
- recovering the carbon fibers from step (c): the fiber precursor pitch employed in step (a) having the following properties :

Property	Value
Wt % of aromatic compounds	at least 95
wt % of aromatic carbon atoms	At least 85
Total aliphatic hydrogen atoms, mol % of total hydrogen atoms	25-65
Aliphatic alpha hydrogen atoms, mol % of total hydrogen atoms	20-40

2-317GI/87

Aliphatic beta hydrogen atoms, mol % of total hydrogen atoms	2-15
Aliphatic gamma hydrogen atoms, mol % of total hydrogen atoms	1-10
Carbon/hydrogen atomic ratio	At least 1.5
Wt % xylene insolubles	15-40
Wt % quinoline insolubles	less than 5
Wt % coking value	65-90
Softening point, °C	At least 240
% Mesophase	Less than 5
Glass transition temp., °C	160-220
Wt % ash	Less than 0.1
Compl. specn. 63 pages.	Drg. 3 sheets

CLASS : 23A & H

161285

Int. Cl. : B65d 13/00 & 15/00.

### "APPARATUS FOR MANUFACTURE OF TUBULAR CONTAINER SLEEVES".

Applicant : ESSELTE PAC AKTIEBOLAG, A SWEDISH JOINT STOCK COMPANY, OF VEDDESTAVAGEN 7-9, S-175 62 JARFALLA, SWEDEN.

Inventor : TAGE JANSSON.

Application for Patent No. 782/Del/1984 filed on 8th October, 84.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 8 Claims

Apparatus for the manufacture of tubular container sleeves having rounded shape and made of a blank of cardboard, plastic sheet metal or plastic or plastic aluminum laminated material and comprising a fixed mandrel around which the blank is intended to be swept and sealed to form an integral sleeve, two sweeper arms over which a spring loaded sweeper band extends and means for rotating the sweeper arms together with the plane container blank round the mandrel and means extending axially adjacent said mandrel for joining the edges of the sleeve blank shaped to the sleeve on the mandrel, characterised in that the sweeper arms are mounted on rotatable shafts extending parallelly with the axis of said mandrel and which are movable to and from the mandrel at the same time as the sweeper arms rotate around their shafts.

Compl. specn. 12 pages.

Drg. 4 sheets.

CLASS : 6A<sub>2</sub>

161286

Int. Cl. : F 25b 39/04.

### CONDENSERS FOR COMPRESSED GAS SYSTEMS.

Applicant : BFNDIX LIMITED, A BRITISH COMPANY, OF DOUGLAS ROAD, KINGSWOOD, BRISTOL BS15 2NL, ENGLAND.

Inventors : RICHARD THOMAS, WILLIAMS THOMAS WALDRON, BRIAN PATRICK NEAL.

Application for Patent No. 783/Del/1984 filed on 8th October, 84.

Convention date October 14, 1983/8327635/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

## 2 Claims

- A condenser for a compressed gas system comprising :
- a cylindrical thermally conducting housing having an upper end;
  - an inverted cup-shaped baffle mounted internally of said housing from said upper end thereof;

said baffle defining a space between interior wall surface of said housing and exterior of said baffle; baffle;

an input port communicating with the upper end of said housing and said space between the interior wall surface of said housing and the exterior of said baffle;

said baffle having an inner chamber defined by said inverted cup-shaped baffle;

said inner chamber being in communicated with an output port, whereby compressed gas entering said input port is caused to flow through said space to contact the interior wall surface of said housing where fluid in said compressed gas condenses;

said compressed gas having to flow downwardly and around a lower edge of said baffle to enter the inner chamber of said baffle and to exit from said output port;

a drain valve being located at a lower end of said housing for receiving condensed fluid from said compressed gas characterised in said output port having a check valve to prevent reverse flow of compressed gas and said drain valve consisting of a dump valve assembly comprising a valve member moveable between open and closed positions, said valve member being connected to control means operable by an externally applied control signal to switch said valve member from a normally closed condition to an open condition to dump fluid pressure from said housing.

Compl. specn. 10 pages.

Drg. 2 sheets

CLASS : 120A

161287

Int. Cl. : B67d 5/04.

#### A SCOOP FOR PICKING UP LUBRICANT.

Applicant : JAMES HOWDEN & COMPANY LIMITED, A BRITISH COMPANY, OF 195, SCOTLAND STREET, GLASGOW G5 8PG, SCOTLAND.

Inventor : WILLIAM WALLACE WHITE.

Applicant for Patent No. 810/Del/84 filed on 17th October, 1984.

Convention date 7th November, 1983/8329687/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

#### 4 Claims

A scoop for picking up lubricant from the inner cylindrical surface of a peripheral ring on a disc mounted on a shaft and dipping into a sump of lubricant, said scoop comprising :

a body formed with a chamber therein;

an outlet for lubricant from said chamber;

first and second convergent surfaces formed on said body and defining a mouth leading to said chamber;

a pivotal deflector mounted within said mouth and having first and second oppositely directed arms;

the first and second arms having first and second faces respectively directed towards said first and second convergent surface respectively;

the deflector being pivotal from one position, in which the tip of the first arm abuts and seals against the first convergent surfaces and the tip of the second arm is positioned adjacent the inner surface of the peripheral ring;

the second face the second convergent surface defining a passage into the chamber;

to another position in which the tip of the second arm abuts and seals against the second convergent surface

and the tip of the first arm is positioned adjacent the inner surface of the peripheral ring;

the first face and first convergent surface then defining a passage into the chamber.

Compl. specn. 9 pages.

Drg. 1 sheet

CLASS : 63 B & I

161288

Int. Cl. : E04h 12/00.

#### SUPPORT STRUCTURE FOR SUPPORTING A POLE-SHAPED MEMBER.

Applicant : SVEN RUNO VILHELM GEBELIUS, A SWEDISH CITIZEN, OF BOX n5008, S-161 15 BROMMA, SWEDEN.

Inventor : SVEN RUNO VILHELM GEBELIUS.

Application for Patent No. 824/Del/84 filed on 25th October, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

#### 11 Claims

A support structure for supporting a pole-shaped member in a substantially vertical direction of extension from a ground plane, comprising :

a pole-shaped member having a tubular cross-section, said pole-shaped member having an inner surface and an outer surface;

said pole-shaped member having a conically reduced cross-section in direction from a ground plane;

a base structure;

an attachment member adapted to be detachably secured to said pole-shaped member;

said attachment member having an external shape substantially corresponding to said inner surface of said pole-shaped member;

at least one clamping member surrounding said pole-shaped member to press a portion of said pole-shaped member surrounding said attachment member into a frictional contact position against said attachment member;

a first electrical connection member disposed adjacent to an upper plane of said attachment member, said first electrical connection member being joined to an electric feed cable;

a second electrical connecting member being disposed to a larger end portion of said pole-shaped member, and being joined to a cable;

said cable being disposed within said pole-shaped member;

said first and second connecting member being electrically interconnectable to supply voltage to an electric fitting suspended by said pole-shaped member.

Compl. specn. 12 pages.

Drg. 2 sheets

CLASS : 190C &amp; 102B

161289

Int. Cl. : F03d—11/02.

A DEVICE FOR TRANSFERRING POWER FROM A PRIMEMOVER TO A LOAD.

Applicant : KAPCOMPANY GENERAL LIMITED, C/o KAPUR SOLAR FARMS, BIJWASAN NAGAFGARH ROAD, P.O. KAPAS HERA, NEW DELHI-110 037, INDIA, AN INDIAN COMPANY.

Inventor : JAGDISH CHANDEA KAPUR.

Application for Patent No. 921/Del/84 filed on 6th December, 84.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.  
4 Claims

A device for transferring power from a primemover such as a windmill, to at least a first load, such as a pump, comprising :

a hydraulic circuit having a first cylinder with a double acting piston working therein;

said piston coupled to the primemover;

hydraulic valve having a first and second set of ports, one set of ports of said valve connected to said first cylinder;

a second cylinder having a double acting piston working therein and connected to said pump;

said second cylinder connected to the other set of ports of said hydraulic valve so as to receive fluid under pressure from said first cylinder.

Compl. specn. 7 pages.

Drg. 1 sheet

CLASS : 40F, 39C &amp; 139D

161290

Int. Cl. : C01b 1/00 &amp; 12/00.

A TWO STAGE PROCESS AND APPARATUS FOR PRODUCING HYDROGEN ENRICHED GAS.

Applicant : IMPERIAL CHEMICAL INDUSTRIES PLC, OF IMPERIAL CHEMICAL HOUSE, MILLBANK, LONDON SE1P 3JF, ENGLAND, A BRITISH COMPANY.

Inventors : ALWYN PINTO & MARTYN VINCENT TWIGG.

Application for Patent No. 250/Del/84 filed on 20th March, 1984.

Convention date 25th March, 1983/8308343 & 17th June, 1983/8316588/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

8 Claims

A two stage process for producing hydrogen enriched gas stream comprising the steps of :

(a) feeding a mixture of a hydrocarbon feedstock with steam into a plenum zone and therein heat exchanging it with a hot stream of reacted mixture passing through narrow tubes extending through said plenum zone;

(b) feeding the resulting heated mixture into a plurality of annular heated catalyst zones each surrounding one of the said narrow tubes and each heated externally by a heat exchange zone, and reacting the mixture therein to produce a gas containing carbon oxides, hydrogen, methane and steam;

(c) feeding the resulting above reacted mixture into the narrow tubes which are in heat exchange with the reacting mixture in the plenum zone, whereby partially cooling it;

(d) collecting the partially cooled gas in a products offtake zone, feeding it to a burner, partially combusting it with oxygen as such or with air or oxygen enriched air (depending on the intended nitrogen content of the raw hydrogen stream to be produced) and passing the combusted product over a catalyst to decrease the methane content thereof;

(e) passing the catalyst effluent as a medium in heat exchange with the exteriors of the said annular catalyst zones.

Compl. specn. 22 pages.

Drg. 3 sheets

CLASS : 32F<sub>9</sub>(a), 55E<sub>4</sub>

161291

Int. Cl. : C07d 51/36.

PROCESS FOR PREPARING PYRIMIDINETRIONE DERIVATIVES.

Applicant : SAPOS S.A., A SWISS COMPANY, OF 5 RUE GUSTAVE-MOYNIER, 1202 GENEVA, SWITZERLAND.

Inventors : PHILIPPE GOLD-AUBERT, DIRAN MELKONIAN, JINDRICH VACHTA, KAREL VALTER, STEPHANE HUGENTOBLE & SIEGFRIED BERNARD.

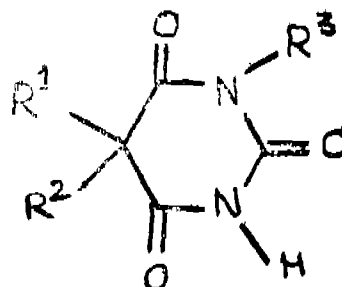
Application for Patent No. 318/Del/84 filed on 11th April, 1984.

Convention date April 12, 1983/8309813/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

9 Claims

A process for preparing pyrimidinetrione derivatives of formula 1



wherein R<sup>1</sup> and R<sup>2</sup>, which may be the same or different, represent aliphatic, araliphatic or aryl groups, and R<sup>3</sup> represents a group of the formula -CH<sub>2</sub>-CH(OCONH<sub>2</sub>)-CH<sub>2</sub>-OX wherein X is hydrogen or a C<sub>1-3</sub> alkyl group which comprises reacting approximately equimolar amounts of a monoalkali metal salt of a compound of formula (1) wherein R<sup>3</sup> is a hydrogen atom with an alkylating agent R<sup>3</sup> Hal wherein R<sup>3</sup> is as defined in the first instance above and Hal represents a halogen atom, in the presence of at least 0.2 moles of an acid of formula (1) wherein R<sup>3</sup> is a hydrogen atom per mole of alkali metal salt.

Compl. specn. 13 pages.

Drg. 1 sheet

CLASS : 144A

161292

Int. Cl. : C23b 5/00.

PROCESS AND APPARATUS FOR FORMING A DRIED COATING UPON A SUITABLE SUBSTRATE.

Applicant : VAPOCURE INTERNATIONAL PTY. LIMITED, A COMPANY INCORPORATED UNDER THE LAWS OF THE STATE OF NEW SOUTH WALES, AUSTRALIA, OF 220 PACIFIC HIGHWAY, CROWS NEST, 2065, NEW SOUTH WALES, AUSTRALIA.

Inventor : ALAN DON McINNES.

Application for Patent No. 336/Del/84 filed on 18th April, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 15 Claims

A process for forming a dried coating upon a suitable substrate comprising coating a vehicle such as herein defined upon said substrate, and subjecting the coated vehicle to treatment with a drying agent such as herein defined, said agent being electrostatically deposited upon the said coated vehicle.

Compl. specn. 16 pages.

Drg. 2 sheets

CLASS : 145 B

161293

Int. Cl. : D 21h 5/00.

#### DOCUMENT RESISTANT TO PHOTOCOPYING AND METHOD FOR THE MANUFACTURE THEREOF.

Applicant : NORMAL ALFRED GARDNER, A CANADIAN CITIZEN, OF 38-UNIT 3, EARL STREET, TORONTO, ONTARIO, CANADA, AND MICHAEL PETER VOTICKY, A CANADIAN CITIZEN, OF 5763 EINSTEIN AVENUE, MONTREAL, QUEBEC, CANADA.

Inventor : NORMAN ALFRED GARDNER.

Application for Patent No. 454/Del/1984 filed on 4th June, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 17 Claims

A document resistant to photocopying in the form of a layered composite which comprises a substrate on which information is printed, typed or otherwise applied, and over at least a portion of said substrate on which at least a portion of said information appears, a coloured layer as herein described having a reflection spectral response of less than 10% for light with a wave-length below 650 millimicrons, said colour being sufficiently visually contrasting with said information to enable said information to be read by the human eye when viewed under white light.

Compl. specn. 17 pages.

Drg. 4 sheets

CLASS : 1131 & 112F

161294

Int. Cl. : B 60 q 1/00, 1/26, 1/30 & 1/34.

#### VEHICLE LAMP ASSEMBLY.

Applicant : BRITAX VEGA LIMITED, A BRITISH COMPANY, OF BERRY HILL INDUSTRIAL ESTATE, GEORGE BAYLIS ROAD, DROITWICH, WORCESTERSHIRE WR9 9AB, ENGLAND.

Inventor : ANTHONY FREDERICK PECK.

Application for Patent No. 455/Del/84 filed on 4th June, 1984.

Convention date 7th June, 1983/8315518/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 4 Claims

A vehicle lamp assembly comprising :

a light source, a light transmitting member, baffle elements of light absorbing material extending from the light transmitting member towards the light source and oriented perpendicular to the surface of the light transmitting member;

lens means located between the baffle elements and the light source and arranged to concentrate light from the light source between adjacent baffle elements;

characterised in that a colour filter is disposed between the baffle elements and the light source, and a strip of opaque material is disposed between each adjacent pair of baffle elements;

the lens means being arranged to focus light from the light source through the gaps between each strip and its adjacent baffle elements;

the ends of the baffle elements abutting the light transmitting member and at least the surface of each strip abutting the light transmitting element being of a colour conforming to the required appearance of the lamp assembly when the light source is not illuminated and all other surfaces of the baffle elements being black.

Compl. specn. 5 pages.

Drg. 1 sheet

CLASS : 112 F & 113 I

161295

Int. Cl. : B 60q 1/00, 1/26, 1/38.

#### VEHICLE LAMP ASSEMBLY.

Applicant : BRITAX VEGA LIMITED, A BRITISH COMPANY, OF BERRY HILL INDUSTRIAL ESTATE, GEORGE BAYLIS ROAD, DROITWICH, WORCESTERSHIRE WR9 9AB, ENGLAND.

Inventor : NICHOLAS WILLIAM TYSOE.

Application for Patent No. 465/Del/1984 filed on 5th June, 1984.

Convention date July 5, 1983/8318224 (U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 4 Claims

A vehicle lamp assembly comprising :

a housing enclosed by a light transmitting cover element and having an inner portion containing a light source and an outer portion containing a lens arranged to collimate light from the light source parallel to its optical axis;

a concave reflector positioned in the housing to collimate light from the light source parallel to the optical axis and to direct the light collimated thereby past an edge of the lens, colour filter means separating the outer portion of the housing from the inner portion; and

an opaque baffle extending from the edge of the lens past which light is directed by the reflector to an imaginary surface defined by the path of light from the light source to the edge of the reflector nearest to the cover element baffle obstructing passage of light between the cover element and the colour filter except by way of the lens or by way of the reflector.

Compl. specn. 7 pages.

Drg. 1 sheet

CLASS : 24D<sub>1</sub> & 116F

161296

Int. Cl. : B66b 5/28

#### HYDRAULIC BUFFER FOR THE BOTTOM OF AN ELEVATOR SHAFT TO DECELERATE AN ELEVATOR CAR.

Applicant : OTIS ELEVATOR COMPANY, A CORPORATION OF THE STATE OF NEW JERSEY, UNITED STATES OF AMERICA, LOCATED AT TEN FARM SPRINGS, FARMINGTON, CONNECTICUT 06032, U.S.A.

Inventors : LOUIS BIALY & FREDERICK PETER MENET.

Application for Patent No. 500/Del/84 filed on 20th June, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

### 3 Claims

Hydraulic buffer for the bottom of an elevator shaft to decelerate an elevator car characterized by:

a fluid container;

a piston cylinder within said fluid container, said piston cylinder dividing said fluid container into a first chamber within the piston cylinder and a second chamber between the piston cylinder and the fluid container, said piston cylinder containing fluid ports connecting said first and second fluid chambers;

a piston extending through a sleeve at the top of the fluid container and into said piston cylinder, said piston and said sleeve having therebetween a space for allowing air to escape from the interior of the container to the surrounding atmosphere outside said container, said space being defined by the entire length of the sleeve;

the top of the piston cylinder and the top inside surface of the fluid container providing an annular passage acting as a nozzle extending between the uppermost portion of the second chamber to a collection area on top of said piston cylinder, that is within the fluid container and directly around said piston and extends to said sleeve, said nozzle allowing passage of fluid/air mixture forced therethrough to said collection area wherein said fluid separates from said fluid/air mixture and the air so separated out escapes under pressure through said space between the sleeve and the piston thereby maintaining said space free from blockage by contaminants; and

a spring surrounding said piston to bias said piston upwardly against downward forces exerted by a descending elevator car.

Compl. specn. 10 pages.

Drg. 1 sheet

CLASS : 205 H

161297

Int. Cl. : B60c 5/00.

### A RADIAL PNEUMATIC PASSENGER TIRE.

Applicant : THE GOODYEAR TIRE & RUBBER COMPANY, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF OHIO, UNITED STATES OF AMERICA, HAVING OUR PRINCIPAL PLACE OF BUSINESS AND A POST OFFICE ADDRESS AT 1144 EAST MARKET STREET, AKRON, OHIO 44316-0001, UNITED STATES OF AMERICA.

Inventors : HAROLD DEWIT FETTY, RONALD LAWRENCE LOFFLER, DANIEL JOHN LINDNER & JEFFREY LEE PLAUNY.

Application for Patent No. 529/Del/84 filed on 2nd July, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

### 10 Claims

A radial pneumatic passenger tire comprising :

a ground engaging tread portion;

said tread portion having a pair of lateral tread edges;

said tread portion comprising a first plurality of main grooves which follow substantially the same path across the tread from tread edge to tread edge;

each of said main grooves having a central portion;

a pair of first intermediate portions;

a pair of second intermediate portions and a pair of shoulder portions;

said central portion being disposed substantially in the axially central portion of the tread portion and having a width in the range of 5 per cent to 15 per cent of the width of the tread portion;

each of said first plurality of main grooves in said central portion being oriented at an angle in the range of 20° to 40° with respect to the mid-circumferential centerplane of the tire;

one of said first intermediate portions is disposed adjacent each axial side of said central portion;

the width of each of said first intermediate portions being in the range of about 10 per cent to 20 per cent of the width of the tread;

said first plurality of main grooves in said first intermediate portion being oriented at an angle that is greater than said central portion angle by about 15°;

one of said second intermediate portions is disposed axially outwardly and adjacent each of said first intermediate portions;

said first plurality of main grooves in said second intermediate portion being oriented at an angle that is greater than the first intermediate portion angle by about 10°;

the width of said second intermediate portion being from 10 per cent to 15 per cent of the width of said tread, the width of said central portion;

said pair of first intermediate portions and said pair of second intermediate portions being no greater than about 80 per cent of the width of the tread;

one of said shoulder portions is provided axially outwardly and adjacent each of said second intermediate portions;

said first plurality of main grooves in said shoulder region being oriented at an angle axially outwardly toward the closest respective tread edge in a substantially axial direction;

said first plurality of main grooves being spaced circumferentially apart a distance in the range of two per cent to three per cent of the circumference of the radially outer surface of said tread portion taken at the mid-circumferential centerplane of said tire;

a second plurality of main grooves are provided each of which follow substantially the same path across the tread from tread edge to tread edge;

each of said second plurality of main grooves have a configuration which is substantially the mirror image of said first plurality of grooves;

said first plurality of main grooves and said second plurality of main grooves extend axially outward from said central portion to the tread edge in a substantially axial direction,

said first plurality of main grooves are circumferentially offset from said second plurality of main grooves;

as measured at mid-circumferential centerplane;

a distance in the range of 25 per cent to 50 per cent of the distance which said first plurality of main grooves are spaced circumferentially apart.

Compl. specn. 17 pages.

Drg. 3 sheets

CLASS : 146E

161298

Int. Cl. : A 61b 516 &amp; G01k 7/00 &amp; 7/22.

A DEVICE FOR EVALUATING THE SENSITIVITY OF THE SKIN OF A PATIENT TO TEMPERATURE.

Applicant : THE DIRECTOR, ALL INDIA INSTITUTE OF MEDICAL SCIENCE, ANSARI NAGAR, NEW DELHI-110016, INDIA, AN INDIAN NATIONAL.

Inventor : JAGJIT SINGH PASRICHA.

Application for Patent No. 546/Del/84 filed on 5th July, 84.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-5.

## 7 Claims

A device for evaluating the sensitivity to temperature of the skin of a patient comprising, a sensing probe having a sensing surface to be pressed against the surface of the skin of a patient, a heating element disposed within a heat transfer member and connected to a variable electric power source, said heating element being disposed away from said sensing surface, said heat transfer member transferring heat from said element to the sensing surface and a temperature measuring element disposed within said sensing probe and connected to a meter for indicating the temperature of the sensing surface pressed against the skin of the patient.

Compl. spec. 9 pages

Drw. 1 sheet.

CLASS : 98 I

161299

Int. Cl. : F24j 3/02.

SOLAR AIR HEATING PANEL.

Applicant : CHARLES STEIN, A U.S. CITIZEN, OF ALBUQUERQUE, NEW MEXICO, U.S.A.

Inventor : CHARLES STEIN.

Application for Patent No. 552/Del/84 filed on 7th July, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 6 Claims

Solar air heating panel having an air inlet and an air outlet, means forming a collector, a heat exchanger, and an energy storage volume within said panel :

said collector comprising a transparent plate overlying but spaced from a solar energy collector plate so as to define therebetween a space substantially free of obstruction such that substantially the entire collector plate surface is exposed to incident solar energy for efficient absorption thereof;

said energy storage volume including a phase change medium in which the latent heat of fusion thereof is made available;

means directly connecting said energy storage volume in heat transfer relationship with respect to said collector and said heat exchanger, said collector plate being in direct contact with said energy storage volume over at least a substantial portion of the area of the collector plate, whereby air flow through said panel across said heat exchanger extracts heat therefrom, and the operating temperature of said collector plate is substantially governed by the phase-change temperature of said phase-change medium and solar energy directed onto said collector causes heat to be stored within said energy storage volume.

Compl. specn. 23 pages.

Drw. 4 sheets

CLASS : 179-F &amp; G

161300

Int. Cl. : B 65 d 47/00.

DISPENSING CAP FOR USE WITH PRESSURIZED CONTAINERS.

Applicant &amp; Inventor : ROBERT HENRY ABPLANALP, OF 10 HEWETT AVENUE, BRONXVILLE, WESTCHESTER COUNTY, NEW YORK, UNITED STATES OF AMERICA.

Application No. 399/Cal/83 filed April 5, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 13 Claims

A trigger-actuated dispensing cap adapted for use with a pressurized container having a valved closure, said cap comprising :

- a slotted housing having a rear and side walls and adapted to be mounted on the perimeter of the valve closure;
- an actuator dispensed within the slotted housing having a valve-connecting portion and a laterally directed discharge portion, together, defining a product, which actuator at the terminus of the valve-connecting portion sealingly connects with the valved closure and at the terminus of the discharge portion has a discharge orifice, said actuator further having a hinged portion connecting the actuator and the rear wall of the housing to provide a lever; and,
- a manually-operated trigger member affixed to the discharge portion of the actuator, having its gripping area disposed outside of the housing but within the perimeter of the container that the dispensing cap is adapted to fit.

Compl. specn. 12 pages.

Drw. 4 sheets

CLASS : 206-E.

161301.

Int. Cl. : G 06 f 15/46.

DISTRIBUTED PROCESS CONTROL SYSTEM.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventors : 1. KIRK DOUGLAS HOUSER, 2. CARL JOSEPH STAAB, 3. WARREN ALBERT EDLAD, 4. DONALD JAMES JONES, 5. DAVID MICHAEL ORAVETZ.

Application No. 416/Cal/84 filed June 16, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 22 Claims

A distributed process control system comprising :

a plurality of processors located at respective locations and a data highway connecting said processors in parallel;

Circuitry for sequencing access of said processors to said data highway;

each said processor having circuitry for transmitting messages onto said highway only when it has access and storing circuitry for storing selected messages transmitted onto said highway by other processors so as to be available for use in control local operations at the location of said processor.

Compl. specn. 80 pages.

Drw. 26 sheets

CLASS : 39-E; 35-D. 161302

Int. Cl. : C 01 b 25/08 + A 01 n 9/00.

**AN IMPROVED METHOD FOR INHIBITING AUTO-IGNITION IN THE PRESENCE OF MOISTURE OF METAL PHOSPHIDE PARTICLES.**

Applicant : DR. WERNER FREYBERG CHEMISCHE FABRIK DELITIA MACHF., OF 6941 LAUDENBACH/BERGSTRASSE, FEDERAL REPUBLIC OF GERMANY.

Inventor : DR. WOLFGANG FRIEMEL.

Application No. 978/Cal/83 filed August 5, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims

An improved method for inhibiting auto-ignition in the presence of moisture of metal phosphide particles which hydrolyze in the presence of moisture to form hydrogen phosphide which method comprises :

mixing the particles, prior to the exposure thereof to moisture, with a hydrophobic salt;

the metal phosphide being technical grade metal phosphide selected from the group consisting of calcium phosphide magnesium phosphide and aluminium phosphide characterized in that the surfaces of the particles are impregnated with 10 to 40 parts by weight, per 100 parts by weight of the particles of a hydrophobic ammonium salt of a fatty acid or of a mixture composed of a plurality of such salts, and wherein the particles are also brought into admixture with 10 to 100 percent by weight, based on the metal phosphide, of either ammonium carbamate or a mixture composed of urea and ammonium carbamate which latter, if the metal phosphide comprises magnesium phosphide, provides not less than 10 parts by weight of the ammonium carbamate per 100 parts by weight of the metal phosphide.

Compl. specn. 17 pages.

Drg. Nil

CLASS : 129-G 161303

Int. Cl. : F 16 9/00, 9/18.

**APPARATUS FOR THE DELIVERY OF HOT FLUIDS TO A WELL.**

Applicant : THE BABCOCK & WILCOX COMPANY, AT 1010 COMMON STREET, P.O. BOX 60035, NEW ORLEANS, LOUISIANA 70160, UNITED STATES OF AMERICA.

Inventors : 1. PAUL SHERIDON AYRES, 2. BURTON DAVIS ZIELS, 3. CHOU-MING CHEN.

Application No. 1048/Cal/83 filed August 29, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims

Apparatus for the delivery of hot fluids to a well comprising :

an inner tubular having an outer surface and defining;  
an inner space adapted for conveying fluids at a temperature within the range of about 400 to 700 degrees F.;

means for supplying fluid to said inner tubular within said temperature range which fluid supply means is connected to said inner tubular;

an outer tubular disposed around said inner tubular and defining an annular space therewith;

said inner and outer tubulars are composed of steel, exclusive of corrosion resistant coatings;

insulation disposed in said annular space;

means for connecting said inner and outer tubulars so that said annular space is closed to atmospheric pressure and a vacuum may be established in said closed annular space; and

a getter material for absorbing at least one active gas in said closed annular space, said getter material being activatable at a temperature within said temperature range, and being disposed in said closed annular space between said insulation and said outer surface of said inner tubular and adjacent said outer surface of said inner tubular, said getter material including at least one of the group consisting of titanium, an alloy of titanium, zirconium, and an alloy of zirconium.

Compl. specn. 16 pages.

Drg. 1 sheet

CLASS : 95-H 161304

Int. Cl. : C 14 b 19/00.

**HANDPIECE FOR SHEARING EQUIPMENT.**

Applicant & Inventor : TERENCE JAMES PARKE, OF 11 CRAIGMORE PLACE, MELTON, IN THE STATE OF VICTORIA, COMMONWEALTH OF AUSTRALIA.

Application No. 1254/Cal/83 filed October 11, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 30 Claims

A cutting handpiece comprising a body portion having a combing means projecting forwardly from the body for guiding material for cutting by the handpiece towards a blade assembly provided on the handpiece as the handpiece moves forwardly with respect to the material said combing means also being provided to facilitate location of the material with respect to the blade assembly during cutting of the material in use, said blade assembly comprising a first cutting element movably connected to the body and a second driven blade means movably connected to the body, said first cutting element and said second blade means being arranged so that movement of the second blade means when driven in use causes movement of the first cutting element with respect to the second blade means in response thereto so that the second blade means and first cutting element cooperatively engage with one another to effect cutting of material located therebetween in use.

Compl. specn. 28 pages.

Drg. 5 sheets

CLASS : 108-C<sub>3</sub> 161305

Int. Cl. : C 21 c 7/02.

**TREATMENT AGENTS FOR MOLTEN STEEL.**

Applicant : FOSECO INTERNATIONAL LIMITED, OF 285 LONG ACRE, NECHELIS, BIRMINGHAM B7 5JR, ENGLAND.

Inventors : 1. PAUL ISIDORE FONTAINE, 2. EVAN THOMAS RICHARD JONES, 3. JOHN KELVIN BATHAM.

Application No. 1504/Cal/83 filed December 8, 1983.

Convention dated 11th December, 1982 (35377) U. K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims

A particulate treatment agent for desulphurising molten steel which comprises granules comprising:

- (a) 15 to 35% by weight of aluminium;
- (b) 40 to 75% by weight of at least one constituent selected from magnesium oxide and magnesium carbonate;
- (c) 0 to 21% by weight of at least one material selected from the group consisting of lime, calcium carbonate and sodium carbonate;
- (d) 0 to 20% by weight of a known fluxing agent; the granules being formed in the presence of binding agent;

the proportion of the aluminium in the surface of the granules being substantially less than the overall proportion of aluminium present in the granules.

Compl. specn. 16 pages.

Drg. Nil

CLASS : 68

161306

Int. Cl. : G 01 r 19/00.

**ELECTRIC CURRENT MEASURING TONGS WITH MAGNETIC CIRCUIT AND PIVOTING ARM.**

Applicant : UNIVERSAL TECHNIC 5 PASSAGE FREQUEL, 75020 PARIS, FRANCE.

Inventor : BERNARD LANDRE.

Application No. 1569/Cal/83 filed December 22, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims

Electric current measuring tongs with magnetic circuit comprising a magnetic circuit having two elements movable relative to each other, and an electric circuit at least partly surrounding the magnetic circuit and capable of being connected to a measuring instrument, wherein one of the elements (1) is capable of being moved in a linear movement relative to the other element (2), and that this second element (2) is mounted rotatably on the housing so as to be pivotable about its longitudinal axis, the facing plane surfaces (3, 4; 5, 6) of the constituent elements (1, 2) of the magnetic circuit consisting of oblique sections.

Compl. specn. 16 pages.

Drg. 1 sheet

CLASS : 195-D

161307

Int. Cl. : G 05 d 16/06.

**REGULATOR FOR MOUNTING ON THE OUTLET CONNECTION OF A GAS CYLINDER OF LIKE CONTAINER.**

Applicant : KOSAN TEKNOVA A/S, OF MOLLEVEJ, 2990 NIVA, DENMARK.

Inventors : 1. FRITS ULRICH HANSEN, 2. OVE JENSEN.

Application No. 527/Cal/84 filed July 23, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 2 Claims

A regulator adapted to be mounted on the outlet connection of a gas cylinder, comprising:

- a housing releasably connectable to said outlet connection and having a spring biased spindle for controlling a self closing valve in the outlet connection, and a spring biased diaphragm forming a wall of a low pressure chamber and adapted to control a valve upstream of the outlet of the regulator in response to the pressure in the low pressure chamber;

said control spindle being operatively coupled, via a connecting rod movable in unison with the diaphragm, to a manually operable open/close-selector;

said selector being pivotally supported on a bearing pin secured in the top part of the housing and oriented transversely of the connecting rod, and having a cam face which is eccentric relative to the bearing pin so that the selector may be pivoted between a first position or closed position in which the control spindle is lifted clear of the valve in the outlet connection against the force of the biasing spring acting on the spindle, and a second position or open position in which the spindle is free to perform an automatic control of said valve wherein; that

the cam face of the selector cooperates with an axially displaceable spring retainer associated with a compression spring interposed between that retainer and the housing;

and that the selector comprises a springbiased, manually releasable locking pin which in the first or open position of the selector engages in a bore in the spring retainer, which bore also receives the end portion of the connecting rod, whereby an upward movement of the connecting rod by its associated diaphragm when caused due to accidental increase of excessive pressure rise in the low pressure chamber causes automatic disengagement of the locking pin by pushing it out of the said bore.

Compl. specn. 11 pages.

Drg. 2 sheets

CLASS : 69-0

161308

Int. Cl. : H 02 b 1/00.

**CONTACT PIECE FOR ELECTRICAL SWITCHGEAR.**

Applicant : SIEMENS AKTIENGESELLSCHAFT, OF D-8000 MUNCHEN 22, WEST GERMANY.

Inventor : MANFRED MULLER.

Application No. 631/Cal/84 filed September 12, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims

An electrical contact piece for electrical switchgear and especially relays having an electrical current supply strip, a contact surface provided on said supply strip for engagement with a contact surface of a contact element cooperable with the contact piece, and an electric arc baffle plate arranged to control the striking of an arc between the contact piece and the contact element, the baffle plate having an arc-control surface which is substantially co-planar with the contact surface of said strip, in which:

the current supply strip is of stepped construction having a first portion which is provided with said contact surface, a second portion which extends transversely of said first portion, and a third portion which is connected to said second portion and which extends substantially parallel to said first portion;

the baffle plate in U-shaped and has a first limb which extends alongside said first portion of the current supply strip and which is provided with said arc-control surface, said surface being spaced from said contact surface of the supply strip;

the U-shaped baffle plate has a second limb which extends alongside said third portion of the current supply strip; and

the current supply strip and the baffle plate are secured to each other by a securing member which joins together said second limb of the baffle plate and said third portion of the current supply strip.

Compl. specn. 9 pages.

Drg. 1 sheet



CLASS : 101-F

161309

Int. Cl. : E 01 f 5/00.

## A PRECAST VILLAGE ROAD BRIDGE.

Applicant & Inventor : SURESH CHANDER SURI, OF 24, MANDEVILLE GARDENS, FLAT NO. B/2/7, CALCUTTA-700019, WEST BENGAL, INDIA.

Application No. 281/Cal/85 filed April 12, 1985.  
Complete Specification left on 11th April, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 11 Claims

A precast RCC village road bridge comprising a structure having at least two body portions in a spaced relationship, each of the said body portions provided with at least one opening and fitted with a pipe connecting the two body portions together, the said openings on the body portions together, the said openings on the body portions provided at a height slightly above the bottom or base of the said body portions, the said body portions being fitted at their sides with outwardly diverging wings and further have supports fitted at the sides on the rear of the body portions to ensure proper foundation of the said village road bridges.

Provisional specn. 3 pages.

Drg. Nil

Compl. specn. 10 pages.

Drg. 1 sheet

CLASS : 101-F

161310

Int. Int. Cl. : E 02 b 1/00 to 3/00.

## AN OUTLET FOR IRRIGATION.

Applicant & Inventor : SURESH CHANDER SURI, OF 24, MANDEVILLE GARDENS, FLAT NO. B/2/7, CALCUTTA-700019, WEST BENGAL, INDIA.

Application No. 282/Cal/85 filed April 12, 1985.

Complete Specification left on 14th April, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 14 Claims

An outlet structure for regulating the flow of water for irrigation comprising :

a front structure consisting of two posts having accessories for regulating the flow and a rear structure;

said front structure and rear structure being joined by a pipe;

the front structure having diverging wings provided therewith an opening provided with the said front structure for the flow of water, and gate provided for the said opening to allow regulated quantity of water to flow through the same;  
the said rear structure being a bucket type formation and provided with an opening connected with the said pipe to allow the flow of water from one end to the other end;

the said front structure capable of being used as the rear structure and the said rear structure as the front structure for the flow of water through the same.

Provisional specn. 5 pages.

Drg. Nil

Compl. specn. 18 pages.

Drg. 2 sheets

3-317G1/87

CLASS : 32 E

161311

Int. Cl. : CO 81-27.00.

## PREPARATION OF IMPROVED ISOPOROUS ANION EXCHANGE RESINS.

Applicant : ION EXCHANGE (INDIA) LIMITED, AN INDIAN COMPANY OF TRECICON HOUSE, DR. E. MOSES ROAD, BOMBAY-400 011, MAHARASHTRA, INDIA.

Inventors : SHRINIVAS VINAYAK VAIDYA, (2) DATTATRAYA MAHADEO DESHPANDE, (3) VIJAY SHRIPAD KAMAT.

Application No. : 138/BOM/84 filed on May 7, 1984.

Complete after provisional left on Aug 6 1985.

Post dated to 5th May, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 18 Claims

A process for the production of an improved isoporous anion exchanger capable of being put to a number of uses which comprises :

subjecting to polymerisation a homogeneous aqueous phase composed of a conventional electrolyte;

a conventional stabiliser;

a monoethylenically unsaturated monomer of the kind described herein and a polyethylenically unsaturated monomer of the kind described herein;

said polyethylenically unsaturated monomer acting as cross-linking agents;

characterised in that said polyethylenically unsaturated monomer is employed in an amount of from 0.2% to 0.5% by weight of said monoethylenically unsaturated monomer thereby to provide the product of said polymerisation as a partially cross-linked polymer in the form of beads or droplets;

recovering in any known way said partially cross-linked polymer leads, introducing the recovered beads into a mixture of formaldehyde and methanol to which a predetermined amount of chlorosulphonic acid has been added to produce *in situ* chloromethylmethyl ether whereby said partially cross-linked polymer is simultaneously chloromethylated and subjected to final cross-linking, recovering the fully cross-linked chloromethylated polymer and subjecting it to amination in a manner known *per se*.

Provisional specn. 7 pages.

Drg. Nil

Compl. specn. 16 pages.

Drg. Nil

CLASS : 101 B

161312

Int. Cl. : E 02 b, 7/00, 8/00.

## DEVICE TO ACCOMPLISH CONSTANT FLOW OF WATER THROUGH DIVERSION WORKS PROVIDED ON THE BANK/BANKS OF A RIVER WHEN HAVING VARYING SURPLUS DISCHARGE.

Applicant & Inventor : (MRS.) VASUDHA GAJANAN SATHAYE, BHAGIRATH, 1030/3, SHIVAJINAGAR, PUNE-411 016, MAHARASHTRA, INDIA.

Application No. 226/Bom/1984 filed August 16, 1984.  
Complete after provisional left November 5, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 2 Claims

A device to accomplish constant flow of water through diversion works provided on the bank/banks of a river

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 7 Claims

## 2 claims

A device to accomplish constant flow of water through diversion works provided on the bank/banks of a river when having varying surplus discharge comprising:

plurality of weirs and orifices wherein the first weir in the river which raises water level sufficiently to divert and carry the water away from the river flow to the receiving arrangements and to surplus the excess flow at intermediate stage/stages and which surpluses most of the excess river flow to its downstream;

arrangements being such that first weir diverts sufficient flow of water through the first orifice to the second weir or the first intermediate weir which surpluses most of the excess flow as at that stage away from the receiving arrangement and diverting the remaining flow through the second orifice to the next stage, whereby repetition of this function at every stage viz. the first and intermediate weirs surplusing most of the excess flow of that stage away from the receiving arrangement and the orifices acting in series carrying the remaining flow towards the receiving arrangement wherein the diverted flow sharply approaches the pre-determined quantum of flow in its working stage.

Compl. specn. 8 pages.

Drg. 1 sheet

Provisional specn. 3 pages.

Drg. Nil

CLASS : 172 D.

161313

Int. Cl. : B 65 h—69/06, D 01 h—15/00.

DEVICE FOR INJECTING A SMALL QUANTITY OF LIQUID INTO THE SPLICING AIR OF A PNEUMATIC YARN SPLICING DEVICE.

Applicant : W. SCHLAFHORST & CO. A LIMITED PARTNERSHIP REGISTERED UNDER THE LAWS OF FEDERAL REPUBLIC OF GERMANY OF BLUMENBERGER STRASSE 143/145, D-4050 MONCHENGLADBACH 1, POSTFACH 205, FEDERAL REPUBLIC OF GERMANY.

Inventors : (1) JOSEF BERTRAMS; (2) EDMUND WEY.

Application No. 240/Bom/84 filed on August 31, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 7 Claims

Device for injecting a small quantity of liquid into the splicing air of a pneumatic yarn splicing device, characterised by that the compressed-air pipe (7 or 20) leading to the yarn splicing chamber (1) of the yarn splicing device encloses a humidification tube (18 or 30) opening into the said compressed-air pipe and proceeding from a container (17 or 24) filled with liquid in which the liquid level (19 or 31) is below the aperture (5) of the splicing chamber (1).

Compl. specn. 7 pages.

Drg. 2 sheets

CLASS : 69 B

161314

Int. Cl. : HO 1 H—83/00, 85/00.

TITLE IMPROVED CIRCUIT BREAKER PANELS WITH ALARM SYSTEM.

Applicant & Inventor : OSCAR VILA MASCOT, A CITIZEN OF VENEZUELA RESIDING AT DORAL BEACH, COMPEJO TURISTICO "EL MORRO" PUERTO LA CRUZ, VENEZUELA.

Application No. 307/Bom. 84 filed on November 2, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

Improved circuit breaker panels with alarm system for use in conjunction with conventional thermoelectrically or magnetically actuated circuit breakers provided in electrical panel boxes comprises a sensing means provided in proximity with said circuit breaker for sensing the occurrence of an overload or short circuit condition due to presence of light rays generated by a LED electrically connected to said circuit breaker, said LED indicating that circuit breaker has been tripped and wherein said sensors are extended to alarm system, and an alarm means electrically connected to said sensing means for indicating the presence of an overload or short circuit condition between supply line and connected load.

Compl. specn. 10 pages.

Drg. 1 sheet

CLASS : 69 B [LIX (1)]

161315

Int. Cl. : HO 1h—83/00, 85/00.

IMPROVED VISUAL INDICATOR FOR CIRCUIT BREAKER.

Applicant & Inventor : OSCAR VILA MASCOT, RESIDING AT DORAL BEACH, COMPEJO TURISTICO "EL MORRO" PUERTO LA CRUZ, VENEZUELA.

Application No. 308/Bom/84 filed on 2nd November, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 6 Claims

A visual indicator circuit breaker of the type herein described with or without any modifications comprising in combination :

- (i) a first contact;
- (ii) an input terminal connected to said first fixed contact;
- (iii) a movable contact provided on a contact carrier, movable between a closed position directly contacting said first fixed contact and an open position away from said first fixed contact;
- (iv) a load terminal connected to a load through said first fixed contact and said movable contact during normal operation and disconnected from said first fixed contact during overload operation;
- (v) sensing means for sensing the presence of an overload condition across the circuit breaker, said sensing means connected to said load terminal;
- (vi) tripping means sensitive to the movement of said sensing means, for moving said movable contact from said first fixed contact;
- (vii) a second fixed contact, contacted by said tripping means after said sensing means senses the presence of an overload condition; and
- (viii) an indicator circuit in parallel with said input terminal and said load terminal and in series with said second fixed contact and said tripping means, said indicator circuit including an illumination device and a reactive current limiting device connected in series with said device operates when an overload condition is sensed by said sensing means.

Comp. specn. 12 pages.

Drg. 1 sheet